

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 59-186498

(43)Date of publication of application : 23.10.1984

(51)Int.Cl.

H04R 1/40

(21)Application number : 58-061139

(71)Applicant : NIPPON COLUMBIA CO LTD

(22)Date of filing : 07.04.1983

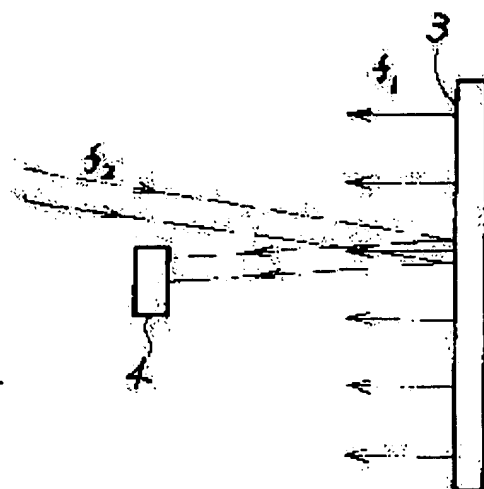
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(54) PARAMETRIC ARRAY MICROPHONE

(57)Abstract:

PURPOSE: To make a transmitter large enough to obtain necessary acoustic power and to obtain an excellent signal-to-noise ratio by obtaining a maximum detection output when a signal arrives from a receiver side.

CONSTITUTION: A signal wave f_2 enters from the side of the receiver 4 and is reflected by the transmitter 3 to cause non-linear interference with an ultrasonic wave f_1 from the transmitter, so that it is caught by the receiver 4. The receiver 4 is sufficiently reducible in size and the arrival signal is never masked as a result. A signal arriving from the transmitter side is unnecessary, so the transmitter is made larger enough to generate an ultrasonic wave having a necessary level; and the excellent signal-to-noise ratio is obtained and the minimum frequency of a signal to be detected depends upon the size of the transmitter, so the size should be large enough.



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[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than]